in a forward-looking network. The Commission should reject this blatant attempt
to penalize competitors for Verizon's claimed inability to deliver the product it is
supposed to provide.
H. VERIZON HAS MODELED INEFFICIENT PROCESSES FOR UNE-P SERVICE ORDERING AND PROVISIONING
PLEASE EXPLAIN YOUR CONCERNS REGARDING CLEC UNE- PLATFORM ("UNE-P") ORDERS.
The non-recurring cost for each of Verizon's UNE-P elements is based on
installation costs with and without premises visits (i.e., with and without field
installation). We have the following concerns about the way in which Verizon
has modeled non-recurring costs associated with UNE-P arrangements.
<ul> <li>Verizon also proposes to assess non-recurring charges for field installation for both the initial and migration of the 2-wire UNE Platform. As we have discussed above, any field installation is properly captured as recurring costs. Moreover, it is difficult to conceive of a situation where the CLEC could possibly be the cost causer of field work where a working combination of elements currently in service is simply being migrated by an electronic order.</li> <li>Although Verizon admits that the individual elements that makes up Verizon's network are generally speaking the same elements Verizon is assembling for CLECs, its UNE-P non-recurring cost studies improperly reflect more complex and costly provisioning and installation activities than Verizon would use for retail services. This is particularly true for the RCCC costs that simply</li> </ul>

Verizon Cost Panel Direct at 233.

1 do not exist in a retail environment. 2 3 Instead of modeling the specific activities required to provision 4 UNE-P combinations, Verizon used combinations of the stand-5 alone elements to determine the non-recurring cost and therefore 6 failed to recognize the economies of leaving elements combined. 7 Efficient practices such as Dedicated Inside Plant ("DIP") and 8 Dedicated Outside Plant ("DOP") allow for the network 9 components to be "pre-connected" or to remain "left-in-place" when services disconnect and provide shortened (faster) service 10 activation intervals, because no physical wiring is required. 11 Therefore, it is inappropriate to include CO wiring and Field 12 13 Installation costs as part of the UNE-P non-recurring costs, as 14 Verizon has done. 15 16 For a UNE-P migration order, Verizon appropriately assumes that there will be no fallout and absolutely no service ordering cost.<sup>34</sup> 17 18 Nonetheless, Verizon incorrectly maintains that even UNE-P 19 migration orders will require manual provisioning activities 20 required of the MLAC and the RCMAC workgroups. 21 22 It is literally impossible under Verizon's own task definitions for the MLAC to be involved with a no-fallout UNE-P order. The 23 24 MLAC is responsible for "Assign[ing] outside plant and central 25 office facilities for non-flow through service orders 26 27 Verizon also contends without justification or explanation that the RCMAC's involvement is 10%; this is an unreasonably high 28 29 fallout rate for a straightforward UNE-P order. In Mr. Walsh's experience, this level of RCMAC involvement would be more 30 31 typical of the small fraction of highly complex, interrelated service 32 orders that involve specialized switch features (e.g., PBX or 33 Centrex applications including 20-30 orders or more). Even for 34 such complex orders, the required time per line was only a few minutes per order, not the absurdly high 34.78 minutes per order 35

that Verizon claims to be involved with the only RCMAC work

This is exactly the kind of efficient ordering process that Verizon should have reflected throughout its non-recurring cost studies.

1 2 task,35 #2.

For the "ISDN-PRI Platform" and "DS1 DID/DOD/PBX Platform" elements, Verizon once again calculates the non-recurring cost of the combination as the sum of the non-recurring costs for the individual elements making up the combination. This is especially problematic because Verizon bases its stand-alone non-recurring costs for the relevant elements on a totally "analog" network (i.e., copper or UDLC) and takes no account of the possibility of provisioning these higher capacity combinations using IDLC, which is technically feasible and the preferred network arrangement. Significantly, even if the Commission were to agree (incorrectly) with Verizon's arguments about the need for UDLC or all-copper facilities to provision stand-alone unbundled loops, the arguments that Verizon has advanced do not apply at all to loop-port combinations.

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For foreign-exchanged UNE-Platforms ("Analog / POTS FX Platform," "POTS/ISDN BRI FX Platform"), Verizon derives the cost from three separate element worksheets, Service Ordering costs from the IOF Voice Grade element, and installation cost without premises visits from the "Two Wire New Initial (C.O. Wiring + Provisioning) plus "Line Port New Additional" (C.O. Wiring + Provisioning) plus "IOF Voice Grade (C.O. Wiring + Provisioning)." Each of these combinations has excessively high service ordering fallout and work times, and each includes excessive costs based on Verizon's erroneous assumption that it cannot use IDLC to provision such combinations. This is particularly problematic because Inter Office Facilities ("IOF") are more economically provisioned over fiber SONET facilities. The most economical arrangement for Verizon would be to convert the Loop portion of the foreign-exchanged UNE-Platform to a DS-0 channel that travels over an Inter Office Facility that terminates directly into the ILEC's digital switch.

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<sup>35</sup> RCMAC task #2 "Receive notification through PARIS of need to perform a manual translation change on working service."

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2	I.	VERIZON'S PROPOSAL TO CHARGE EXTRA FOR HOTCUTS
3		IS NOT FORWARD-LOOKING.

### 4 Q. ARE THERE ANY PROBLEMS WITH VERIZON'S "HOTCUT" 5 ELEMENTS?

- A. Yes. As we understand it, Verizon's "hotcut" charges inappropriately reflect
  additional costs that Verizon claims that it will incur to perform the physical
  activity necessary to redirect an end-user's service at the same time that the new
  entrant completes its portion of the installation, thereby minimizing any service
  interruption for the end-user. (Verizon has referred to this process as a "hotcut"
  or a "coordinated cutover.")
- 12 Q. PLEASE DESCRIBE THE PROCESS AND ASSOCIATED NON-RECURRING COST ACTIVITIES VERIZON CONTENDS WILL BE NECESSARY WITH THEIR "TWO WIRE HOT-CUT INITIAL" RATE ELEMENT.
  - A. AT&T/WCOM NRCM-5, page 7, is a process workflow diagram that depicts of the steps that are indicated in Verizon's presentation of non-recurring cost. The diagram begins with examining the core activity that is required by the element request, that is, the customer's loop needs to be interconnected to the CLEC's equipment.

The process depicted by Verizon's NRCM centers on the control of the RCCC. So although the order for the hot-cut will normally appear in a CO Frame technician's work package, he/she just puts it aside until they get a call from the RCCC (task #1). Once the RCCC makes their call, the CO Frame technician will

record the information manually, and then retrieve the order from the OSS (for a second time) and compare it to the information they were just told over the phone from the RCCC, as indicated in task #2. As you can tell, the CO Frame tasks #1 & 2 reflect certain inefficiencies inherent in manual processes. Task #4 applies travel time necessary to travel to non-staffed offices. The problems associated with this travel time are: 1) the frequency of travel has increased 100% (from 12% for the 2 Wire UNE, to 24% for the hot cut for the same element type) and 2) there is no assumption as to how many tasks will the technician perform while at the remote office so that the travel cost can be divided equally. This inconsistency is not explained by Verizon testimony or any supporting documentation.

The verification activity only examines the existing facilities. Because the information in the OSS and that provided by the RCCC may not always be correct, an employee needs to verify it, and report back if the information was not correct. Here too, this task does not reflect the most efficient process. Instead, it covers the fact that sometimes the information residing in the OSS or conveyed by the RCCC would be wrong. The CLEC has not caused the misinformation and imposing a non-recurring charge for this type of activity certainly doesn't fit the cost causation concept on which Verizon claims its NRCM is based.

CO frame Task #6 now allows for Verizon to collect another non-recurring charge to move the CO frame technician to the CLEC's assigned equipment location and place a cross-wire back to where he/she just performed the verification step (task #5). This is not the most efficient way of doing

business, because it is more efficient to perform the verification and crosswire placement at the same time.

CO Frame task #7 now moves the technician back to the CLEC equipment (see CO frame task 6) and performs yet another verification to see if the CLEC's dial tone is present. Then, he/she walks back to the cable pair (which he verified in task #5) and re-verifies it again, once more comparing the information to the information on the order and to the information he received over the phone. If somehow the information is not correct, he reports back to the RCCC, saying something is wrong, and obtains a new assignment. At this point, it's not clear why the assignment is defective, or how the new assignment would appear, but Verizon has included this task to cover all angles. Of course, if the assignment were defective, Verizon would begin the entire process thus far over again. Either way, the CO frame reports back to the RCCC that they are ready to proceed.

After the completion of task #7, the technician awaits the call to proceed. CO Frame task 10 indicates "on due date at frame due time, work under direction of RCCC and cut-off/cut-in wire at reuse facility. Perform multi-line hot-cuts one line at a time (provide per line time average). Test to insure dial tone leaves central office OK." This task sums up the *core activity* that is necessary being under the control of RCCC. This is followed by a completion of the work by task #15, which even allows for reporting an error condition. Then task #22 allows him to complete the order once more.

The tasks CO Frame identified by Verizon do not in any way represent efficient processes.

#### Q. HOW SHOULD THIS HOT-CUT PROCESS BE MODELED?

A.

First, we should clarify the type of processing that is actually going on because the terminology "Hot-Cut" suggests that some form of special operations is taking place. What is actually happening is a *migration order*. The end user is migrating or transferring its service from Verizon to the CLEC or from one CLEC to another. In the service negotiations before the order is even created, the CLEC explains to the end user that on a given day and at a negotiated time the end user's existing service provider will cease its service and shortly thereafter the CLEC will begin its service. The *core activity* necessary to produce this migration is a *deactivation* of the existing (*i.e.*, "Old") service provider's service and an *activation* of the "New" service provider's service.

The deactivation of Verizon's service is accomplished with a translation message that is sent to the LDS to de-activate the ILEC's dial tone. The exact time that it is released to the switch by the OSS is governed by the "Due-Time" negotiated and indicated on the service request. The OSS can recognize this due time and release the message to the switch to effectively turn off the dial tone. Likewise, shortly thereafter the "New" service provider would release *its* translation message (based on the negotiated "due time") to *its* switch to activate the new service provider's service. And if the circuit has been rewired at the CO

MDF, the circuit will be complete and end user will be connected to the new service provider.

There is no obligation to have the CLEC's dial tone residing on its equipment before the specified due-date and due-time. Therefore, the hotcut process indicated by the Verizon NRCM is counter-productive. To invoke Verizon's process, the due-date and due time *must have passed to allow the verification as indicated by CO frame activity #7*. This Verizon activity thus creates a *missed commitment* for the CLEC, which is truly unnecessary.

In summary, the migration order involves two core operations, translations and CO frame wiring. The MDF wiring can be accomplished *any time before the due-date and due time*, as is the standard practice with retail service orders. It is accomplished by placing a new cross-wire "on top of" the existing wires at the cable pair location and terminating the remaining end at the CLEC's equipment appearance (CFA).<sup>36</sup> On the *due-date* and on at the negotiated *due-time*, translations are released into the appropriate switches and the service is transferred. Therefore, there is *no requirement* for the ILEC to invoke its RCCC "command center mentality."

Once the service is transferred, and at the ILEC's own discretion, the ILEC can remove the cross-wire to its office equipment or leave it in-place as Dedicated

Inside Plant ("DIP"). When the CLEC ceases to need the unbundled loop, the cross-wire that was placed "on-top" of the cable pair would be removed with the CLEC's disconnect order.

The process we have just explained is not "pie in the sky," nor is it new to Verizon. A similar process has been in use for at least 20 years to migrate thousands of customers in a matter of seconds from one switch to another during switch cutover conversions. The new switch office equipment is cross-wired to existing cable pairs and translations are programmed in the switch. On the night of the conversion, instructions are sent to the old (disconnecting) switch to deactivate (shut-down) service in that switch. Within a few seconds, a similar instruction is sent to the new switch to turn-on translations. This allows everyone in the old switch to be migrated to the new switch. While at NYNEX as an ESS Conversion supervisor, Mr. Walsh was personally involved with and saw many switch conversions. Verizon should have modeled its hotcut process on its switch conversion process. Instead, Verizon modeled an unnecessarily labor-intensive process to incur the highest possible cost.

This is referred to as "double tapping" the cable pair. It is also an every day occurrence when performing the work required by engineering work orders (*i.e.*, rearrangement of plant).

Q.	SHOULD THE COMMISSION ALLOW VERIZON TO APPLY
	ADDITIONAL CHARGES TO NEW ENTRANTS FOR PROVIDING A
	"COORDINATED CUTOVER" OR "HOTCUT"?

No, it should not. As a matter of policy, the Commission should reject Verizon's proposed costs for a coordinated cutover. Minimizing service disruptions should be a basic business priority for both Verizon and new entrants. In those instances in which some effort is required to communicate and to perform work in accordance with an integrated schedule, that effort should be considered integral to the obligation of each company, not an additional frill. Each company should bear its own costs of minimizing customer disruption.

In UNE pricing proceedings involving Verizon (formerly Bell Atlantic), the states of New Jersey and Pennsylvania have already reached exactly that conclusion. In rejecting such charges, the New Jersey Board of Public Utilities concurred with the "position that coordinated cut-overs are an obligation that all carriers have in order to minimize customer inconvenience." The New Jersey Board further found that the process necessary to coordinate order due times was not significantly different from the process that Bell Atlantic routinely used to establish commitment times for its retail customers and that, therefore, "no charge is appropriate." Likewise, the Pennsylvania Public Utility Commission adopted

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New Jersey Board of Public Utilities, In the Matter of the Investigation Regarding Local Exchange Competition for Telecommunications Services, Docket No. TX95120631, Decision and Order dated December 2, 1997, at 155.

<sup>&</sup>lt;sup>38</sup> *Id*.

an Administrative Law Judge's conclusion that Bell Atlantic's "proposed charge for 'coordinated cutover,' should be rejected, both on policy grounds and due to insufficient cost support." The Pennsylvania Administrative Law Judge "agreed with MFS that, because a coordinated cut-over charge is so closely associated with the changing of carriers, the charge should be borne by all LECs so as not to discourage customers from switching carriers."

Finally, our experience in other jurisdictions indicates that entrants do not actually get anything other than parity with the installation procedures the incumbent local exchange carrier provides to itself in return for paying "coordination" charges. In other words, for their retail services, incumbent local exchange carriers have developed means to automatically coordinate service order activities and, thereby, minimize service interruptions. Verizon does not charge its retail customers extra for this type of service, nor should Verizon charge competitors more so that they (and their customers) will not receive inferior service to that Verizon provides to retail customers. Therefore, the Commission should consider the cost, if any, of coordinating service cutover as a mutual obligation of both the new entrant and Verizon.

See Pennsylvania Public Utility Commission, Docket Nos. A-310203F002, A-310213F0002, A-310236F0002 and A-310258F0002, Opinion and Order - Short Form, adopted July 18, 1996, at 13.

### 1 Q. WHY SHOULDN'T MANUAL COORDINATION COSTS BE INCLUDED IN A FORWARD-LOOKING ESTIMATE OF NON-RECURRING COSTS?

3 Coordination of provisioning activities is one of the basic capabilities supplied by A. modern OSS. Other than for the manual work that is actually required to make 4 and test physical connections in its network, Verizon's OSS coordinate its entire 5 order provisioning process so that no manual intervention is required for most 6 mass-market retail services. 40 Therefore, a forward-looking non-recurring cost 7 8 study should recognize that the coordination required to provision basic services 9 is automated. The Commission must not allow Verizon to short-circuit the 10 efficiency of its OSS so that new entrant orders require manual coordination while 11 its own retail service orders do not.

### 12 J. VERIZON'S BUNDLING OF DISCONNECT COSTS INTO CONNECT CHARGES VIOLATES COST CAUSATION.

# 14 Q. IS IT APPROPRIATE, AS VERIZON'S COST PANEL SUGGESTS, 41 TO ADD DISCONNECT COSTS TO CONNECT COSTS?

16 A. No. Verizon's non-recurring cost studies inappropriately include disconnect costs
17 in the connect charges. As Ms. Murray explained in her direct testimony, Verizon
18 does not incur the costs of disconnection until or unless a facility is disconnected.
19 Requiring a new entrant to pay for disconnection at the time it orders a

See, e.g., Bell Atlantic Maryland Response to AT&T/MCI Data Request No. 1, Ouestions 16, 24 and 28, Public Service Commission of Maryland Case 8786.

Verizon Cost Panel Direct at 335-336.

connection, therefore, violates cost causation, and, because the time until
disconnection is uncertain, raises needless "time value of money" issues. In
addition, bundling connection and disconnection costs for unbundled network
elements unnecessarily aggravates the barrier to entry that up-front charges create.

# Q. DOES VERIZON'S COST PANEL PROVIDE SUFFICIENT JUSTIFICATION FOR BUNDLING DISCONNECT COSTS WITH CONNECT COSTS?

A.

No. Verizon's Cost Panel erroneously argues that disconnect costs should be bundled with installation costs for unbundled network elements because such costs have traditionally been bundled in the retail market.<sup>42</sup> It does not follow that new entrants should likewise pay for disconnecting at the time they pay for connecting a new unbundled network element. The rate design policies that were "traditionally" followed in a monopoly retail market have no necessary application to a wholesale environment, particularly when the wholesale environment involves transactions between a dominant incumbent provider and its dependent competitors.

The typical rationale for bundling connect and disconnect charges for retail customers is the difficulty of levying and collecting a disconnect charge after the termination of service to a customer who may be leaving the incumbent's service

As Ms. Murray noted in her direct testimony, to the extent that end users currently pay for both connections and disconnections at the time they order service, this practice is (continued)

territory. This rationale has limited applicability in the context of an ongoing
wholesale relationship between Verizon and another local exchange provider in its
service territory. A new entrant must maintain its standing as a wholesale
customer with the incumbent or go out of business.

Likewise, Verizon's assertion that the present worth factor it applied to its disconnect cost solves the problem is incorrect. For example, a successful new entrant may continue to lease a particular unbundled loop throughout the course of providing service to several different end-user customers (at the same location) over many years. In that context, it makes no sense to force the new entrant to pay Verizon for a future disconnect in advance, even at a discounted level. Nor does the discounting eliminate the barrier to entry.

For all of these reasons, a disconnect charge should be only be assessed if and when the new entrant asks the incumbent to disconnect facilities, and not before. This makes the disconnect charge follow the principles of cost-causation.

questionable because the facilities are often not physically disconnected when service is terminated.

For example, a new entrant might choose not to disconnect customers at the time they vacate particular premises. The advantage of that decision is that, once the same premises is reoccupied, the new tenant would have a "warm dial tone" to the new entrant's business office. The alternative is either to eliminate the efficiency of maintaining warm dial tone or perpetually to renew Verizon's monopoly by forcing all locations to return to Verizon service whenever ownership changes.

#### 1 Q. WOULD DISCONNECTION OCCUR IN ALL CASES WHEN A NEW 2 ENTRANT CEASES TO USE FACILITIES?

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A. No. When a new entrant serves an end user using either total service resale or combined unbundled network elements, there would be no physical disconnection of facilities required when the new entrant ceased to use those facilities.<sup>44</sup> In this case, there should be no disconnection charge. Moreover, if the end user became the customer of the new entrant by migration from the incumbent, rather than as a new install, the end user would already have paid for disconnection when that end user initially took service from the incumbent. That is, an end user who migrates would, in effect, be charged twice for disconnection, once when beginning service with Verizon and then again when moving to a competitive provider. Verizon (formerly Bell Atlantic) acknowledged this potential for double-recovery in New York, when its line sharing witness panel supplied the following question and answer:

- O. How are the costs of disconnecting BA-NY's service, prior to cross-connecting to the splitter, recovered?
- Those costs are recovered in the initial BA-Α. NY retail access line installation, in compliance with long standing cost recovery

Verizon supports this concept by not charging any CO Wiring non-recurring cost associated with "Two Wire Analog-Digital Conversion UNE-P Initial" element.

	policy by this Commission. They are not imposed on the CLEC. <sup>45</sup>
	The same logic applies to a migration order. As the New York panel noted, the
	disconnect costs were already recovered, in advance, when the retail access line
	was installed.
Q.	CAN THE COMMISSION ADOPT CONNECT AND DISCONNECT CHARGES SEPARATELY?
A.	Yes. In his direct testimony, Mr. Walsh appropriately reported separate connect
	and disconnect costs that provide the detail necessary to establish separate cost-
	based connect and disconnect charges. Furthermore, although Verizon bundled
	connection and disconnection costs to report its results, its own workpapers
	develop those costs separately.46
	Separation of disconnect costs minimizes the initial barrier to entry and
	more closely links costs and cost recovery with the manner in which Verizon
	actually incurs costs, thereby eliminating the effect of debatable assumptions
	about the future level of customer churn. It also provides the correct signals to all
	service providers.
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Panel Testimony of Bell Atlantic - New York on Costs and Rates for Loop Conditioning and Line Sharing for DSL-Compatible Loops, February 22, 2000, NYPSC Case 98-C-1357, at 39-40.

Verizon's disconnect assumptions are somewhat nonsensical. For example, Verizon includes more travel time in its disconnect costs for a loop than in its connect costs.

### 1 Q. HOW WILL BREAKING OUT DISCONNECT COSTS PROVIDE THE CORRECT PRICE SIGNALS TO ALL SERVICE PROVIDERS?

"Unbundled" non-recurring charges for installation and disconnection reward 3 A. good service and punish bad service. The rate of customer churn for competitors 4 5 should be inversely correlated with the desirability of their service offerings. 6 With "unbundled" non-recurring charges for installation and disconnection, 7 providers of superior service will reap the benefit of the longer customer retention intervals attributable to that superior service, and providers of inferior service will 8 9 bear the higher disconnection cost—on a Net Present Value ("NPV") basis— 10 attributable to their more rapid customer churn. In contrast, Verizon's proposal to 11 build an average recovery of cost for customer disconnection into the cost of all 12 service orders based on an average customer retention interval would penalize the 13 provider of superior service and reward the inferior provider by equalizing the 14 disconnection cost that each incurs.

# 15 III. VERIZON'S WORK-TIME ESTIMATES REFLECT A FAULTY 16 SURVEY-BASED STUDY METHODOLOGY.

### 17 Q. HOW DID VERIZON DERIVE ITS WORK-TIME ESTIMATES FOR ITS NON-RECURRING COST ESTIMATES?

19 A. Verizon apparently derived its work-time estimates for most of its non-recurring cost estimates by surveying its employees across the East Coast region.<sup>47</sup>

Verizon Cost Panel Direct at 312.

Q.	DID VERIZON PROVIDE DETAILS CONCERNING THE SURVEY
	RESPONSES?

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To a limited extent, yes. Verizon has not provided details concerning how the company developed its work times from the survey responses. However, in response to discovery from AT&T and WorldCom, Verizon provided some detail on the survey responses itself. Nevertheless, these results are often nonsensical and internally inconsistent. In response to AT&T/WCOM 6-21, Verizon provided a spreadsheet purportedly including the individual time estimates from each respondent. In response to AT&T/WCOM 6-31, Verizon provided what it purports to be the number of responses received for each survey task. These two responses do not line up. For example, Verizon VA's Response to AT&T/WCOM 6-31 claims that Verizon received 138 survey responses for RCCC task 1 for the Two Wire New Initial element, while Verizon VA's Response to AT&T/WCOM 6-21 contains only 11 individual responses. The data supplied by Verizon are unreliable in other ways as well. The means and medians of survey responses provided in Verizon VA's Response to AT&T/WCOM 6-31 do not match the means and medians of the individual

means and medians of survey responses provided in Verizon VA's Response to AT&T/WCOM 6-31 do not match the means and medians of the individual responses in Verizon VA's Response to AT&T/WCOM 6-21, nor do the data that Verizon provided in response to AT&T/WCOM 6-21 match Verizon's assumptions for its non-recurring cost model. Furthermore, Verizon's discovery responses do not seem to include all of the individual survey responses that

Verizon received. Verizon purportedly made some adjustments to the survey data which might account for this discrepancy.<sup>48</sup> However, in most cases, we cannot tell what adjustments were made or why. Verizon has proffered no documentation of the adjustments.

Despite these flaws, we have some information that we can use in our evaluation of Verizon's work-time cost study. The Verizon study is the result of the same footprint-wide survey that the company submitted in proceedings in several other states with which we are familiar, such as New York and Maryland. Indeed, Verizon acknowledges that the studies and presentation it uses in this proceeding are "essentially the same as those recently submitted in New York ... [and] Maryland...." Therefore, we rely to some extent on publicly-available data from those states in our analysis of Verizon's survey. Nevertheless, the data available by no means present a complete picture of Verizon's survey and its subsequent manipulation of the values.

- Q. IS THE METHODOLOGY ON WHICH VERIZON HAS BASED ITS PROPOSED NON-RECURRING CHARGES A RELIABLE BASIS FOR SETTING PRICES?
- 18 A. No. Verizon would have this Commission believe that its non-recurring task
  19 times are "based on a rigorous survey of personnel actually involved in the

Verizon Cost Panel Direct at 311; Verizon Response to AT&T/WCOM 6-33.

Verizon Cost Panel Direct at 302.

1		relevant work functions under study." <sup>50</sup> To the contrary, Verizon committed
2		numerous errors in its survey design, data collection and data processing. These
3		errors contributed to the inflation of Verizon's study results and render those
4		results useless for estimating efficient work times.
5	Q.	WHAT IS WRONG WITH VERIZON'S SURVEY DESIGN?
6	A.	At the most fundamental level, Verizon asked the wrong question of its survey
7		respondents. Verizon's "Instructions for Providing Estimates of Average Time"
8		state:
9 10 11		When making your initial estimate, estimate the actual time it <i>does</i> take to perform the activity in its entirety, not the time that it <i>should</i> take. <sup>51</sup>
12		As a result, respondents were likely to give work-time estimates that are
13		inefficient and not forward-looking. Although Verizon purports to have made
14		forward-looking adjustments to these estimates, in many instances, Verizon made
15		insufficient adjustments. <sup>52</sup> In fact, there are many workgroups and entire non-

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recurring charges for which Verizon made no forward-looking adjustments at all.

<sup>50</sup> *Id.* at 311.

Verizon Exhibit Part H, Section K, page 2 of 2, emphasis in original.

We provide numerous examples of Verizon's failure to apply sufficient forward-looking adjustments throughout this testimony.

For example, Verizon made no forward-looking adjustments to any "conditioning" activity time.<sup>53</sup>

A.

At a most basic level, Verizon did nothing to educate survey respondents concerning the nature of forward-looking cost studies. As a result, the work-time estimates provided by survey respondents include an inherent (although unquantifiable) upward bias because the estimates reflect embedded/historic practices and plant, not efficient forward-looking practices performed on modern plant in the face of competition.

# 9 Q. IS THERE ANY EVIDENCE THAT VERIZON'S SURVEY 10 INSTRUCTIONS AND DATA PRODUCED INACCURATE WORK-TIME 11 ESTIMATES?

Yes. Verizon's vague instructions to survey respondents necessarily invited a disparate range of work-time estimates that do not accurately reflect the efficient amount of time it takes to complete particular tasks. By including the obvious outliers produced by these vague instructions, Verizon compounded the upward bias in its survey, thus resulting in higher-than-accurate work-time estimates.

In response to Verizon's vague instruction to "estimate the actual time it does take to perform the activity in its entirety," the survey respondents provided

By "conditioning" activities we mean those tasks Verizon has included in its Engineering Work Order, bridged tap removal and load coil removal elements. Verizon has assigned each of those activities a "forward-looking adjustment" of 100%. Verizon Wholesale Non-Recurring Cost Model.

1	work-time estimates that varied widely from individual to individual. The
2	following examples from Verizon's survey results illustrate this point. <sup>54</sup>
3	Two Wire New Initial:
4 5 6 7	• "Notify CLEC of line/circuit completion."—The minimum estimate was one minute, the maximum was 120 minutes (two hours). The average was 10.56 minutes, the median was 5 minutes.
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9	Two Wire Hotcut Initial:
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11	• "Restorals & Service Interruptions: handle all Restoral requests."
12 13	— The minimum estimate was two minutes, the maximum was
13	120 minutes (two hours). The average was 32.37 minutes, the
14 15	median was 20 minutes.
15 16	Two Wire Hotcut Additional:
17	Two Wire Hoicui Auditional.
18	• "Restorals & Service Interruptions: handle all Restoral requests."
19	— The minimum estimate was one minute, the maximum was 180
20	minutes (three hours). The average was 30.21 minutes, the median
21	was 10 minutes. <sup>55</sup>
22	
23	Engineering Work Order:
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25	• "Check for and obtain any necessary permits" — The minimum
26	time was five minutes, the maximum was 540 minutes (nine
27	hours). The average was 90.31 minutes, the median was 30
28	minutes.
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Verizon Response to AT&T/WCOM 6-31. For each of these examples, the average survey time (without adjustments) provided in New York (Verizon New York's Response to MCI-BA-66 in NYPSC Case 98-C-1357) is precisely the time that Verizon used in its Virginia study. Therefore, we assume that Verizon has made no modifications to the survey results for these specific tasks.

We note that this is the same task as is included in Two Wire HotCut Intitial,

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Verizon's study	23
incorrect outlier	24

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• "Update LFACS and LIVEWIRE." — The minimum time was one minute, the maximum was 260 minutes (4.3 hours). The average was 45.97 minutes, the median was 10 minutes.

- "Send schematic to Engineering Clerk for drafting of work print and preposting of cable plat(s)." The minimum time was one minute, the maximum was 240 minutes (4 hours). The average was 14.81 minutes, the median was 5 minutes.
- "Receive schematic from engineer for drafting." The minimum time was one minute, the maximum was 90 minutes (1.5 hours). The average was 10.50 minutes, the median was 2 minutes.

Even a cursory evaluation of this range of results suggests that respondents were not consistently answering the same question. For example, one likely explanation for the range of results from *one minute* to *nine hours* for the task "Check for and obtain any necessary permits" for the Engineering Work Order is that the first respondent is estimating the time actually required for the relevant employee to perform the task and the second respondent is estimating the elapsed time from transmittal of a request for the "necessary permits" to the receipt of that permit. The first time is relevant to the estimation of the cost that Verizon incurs to perform activities, the second is not. Yet a comparison of the survey results to Verizon's study inputs reveals that Verizon included extreme and obviously incorrect outliers such as the 540-minute time estimate for this task in computing the average work time used as its study input.

This disparity in results should have led Verizon to question the validity of its survey design. Instead, Verizon compounded the inaccuracies by using the average (rather than the minimum or median) time reported as the work-time

input to its cost study. This approach grossly overstates the time it takes most workers to complete a task, and thus produces a work-time estimate that does not represent an efficient, forward-looking cost. For over 80% of Verizon's work times, the arithmetic averages exceed the median estimates, in many cases by a substantial amount, reflecting the skewed distribution of responses. In many cases, the median estimates are far closer to the lowest work estimates provided by any survey respondent, whereas the average estimates significantly exceed the minimum and median times. Despite its claim that it has eliminated outliers from its study, Verizon plainly does include one or more high outlier estimates in its calculations. For example, in the case of the task "Receive schematic from engineer for drafting" listed above, the mean time (10.50 minutes) was over five times the median (2 minutes). Verizon used the mean. The high estimate in this case was 90 minutes, three times the next highest estimate of 30 minutes.

Verizon Response to AT&T/WCOM 6-31.

l	Removing just this estimate (the 90-minute outlier) drops the average time to 6.31
2	minutes, a 40% decrease. 58

# Q. VERIZON CLAIMS THAT IT HAS REMOVED OUTLIERS.<sup>59</sup> DOES THIS CORRECT ITS STUDY?

A. No. Verizon VA has provided no information regarding its supposed removal of outliers. Furthermore, the numerous examples we provided in the last answer demonstrate that Verizon has *not* removed all obvious outliers.

Verizon has also failed to exclude responses from individuals who clearly did not understand what they were being asked to estimate. For example, one respondent apparently gave an estimate of 960 minutes (16 hours) for each of three different Engineering Work Order tasks: "Designs work requirement (e.g., remove bridged tap(s), remove load coils) after research of cable plat(s)," "Draws schematic of work required including outside plant locations," and "Completes the work print." The total of this respondent's estimates for the Engineering Work Order tasks was 4,045 minutes or *over 67 hours*. Verizon should not have made any use of this respondent's survey because the task times reported are not even facially plausible. Yet, Verizon apparently included this respondent's

Verizon Response to AT&T/WCOM 6-21.

<sup>&</sup>lt;sup>59</sup> Verizon Cost Panel Direct at 311.

Verizon New York's Response to RLI-BA-134 in NYPSC Case 98-C-1357. As we noted above, Verizon acknowledges that the survey responses here are "essentially the same" as those provided in New York.

estimate in its average for the "Complete the work print" task, <sup>61</sup> the "Check for and obtain any necessary permits" task, and possibly other tasks as well.

Moreover, as discussed below, the very small number of survey responses for many tasks make it difficult, if not impossible, to determine true outliers. Regardless, even if Verizon has removed some of the more obvious and egregious outliers, these adjustments have not addressed, but instead have masked, the fundamental design flaws inherent to Verizon's study. Indeed, many of the nonsensical results of Verizon's study highlight defects in its survey design that skew its results upward.

The respondent's estimate of 960 minutes for this task, is three times as high as the next highest survey response of 330 minutes. The minimum estimate for this task was one minute, the median was 45 minutes. Verizon Response to AT&T/WCOM 6-21.

See Verizon New York's Response to MCI-BA-66, NYPSC Case 98-C-1357.

21, supposedly adjusted to remove outliers, yield a mean of 9.7 minutes and a median of 5 minutes. These figures make Verizon's assumed task time appear even more inflated.

### 4 Q. ARE THE WORK-TIME ESTIMATES PROVIDED BY PERSONNEL IN VERIZON'S STUDY RELIABLE?

No. Although Verizon's Cost Panel represents survey respondents as "personnel actually involved in the relevant work functions under study," these employees provided extremely disparate estimates for the same task. These inconsistent results are not limited to the more extreme examples listed above, but are in fact pervasive throughout the survey. For example, for the removal of underground load coils task "set up the inside of the manhole for work to be done," one respondent gave the "typical" time as five minutes; another gave it as 240 minutes (four hours). It is implausible that two employees familiar with this task on a day-to-day basis could provide such divergent estimates if they both understood the question in the same manner. We believe such inconsistent results suggest either that, due to the vague direction provided them, respondents were not answering the same question or that some respondents were not at all familiar with the tasks at issue.

A.

Verizon Cost Panel Direct at 311.

Verizon VA's Response to AT&T 6-31.

### 1 Q. DID VERIZON SURVEY A LARGE ENOUGH NUMBER OF EMPLOYEES?

A.

No. Verizon surveyed what must be a small fraction of the total number of employees who perform the kinds of tasks included in its non-recurring cost study. In fact, Verizon relied on a very small number of responses for many of the tasks. According to discovery Verizon provided in both New York and Virginia, a substantial number of the task times were based on five survey responses or less, with quite a few estimates being based on one response alone.<sup>65</sup>

Such small samples give extreme importance to what may be outlier inputs. A simple example illustrates this point. If we want to estimate the average height of adult Americans and measure the height of only one or two individuals, there is a nontrivial chance that we would select unusually short or unusually tall people and therefore misestimate the true average. The more people we include in our sample, the greater the likelihood that we will produce an accurate estimate.

The risk of outlier estimates is always a problem in small samples. It takes on a particular significance in this case because Verizon's survey was designed in such a way as to increase the chances that any given respondent would provide a misleading or inaccurate estimate of the task time being measured.

Verizon New York's Response to ATT-BA-191 in NYPSC Case 98-C-1357; Verizon VA's Response to AT&T/WCOM 6-21. As we noted above, Verizon Response to (continued)

1 2 3	Q.	IS THE LIST OF TASKS THAT VERIZON PROVIDED TO SURVEY RESPONDENTS LIKELY TO PROMPT EXAGGERATED TIME ESTIMATES?
4	A.	Yes. Verizon's survey divides tasks into artificially small steps that could easily
5		have caused survey respondents to make varying interpretations of the estimates
6		being sought and almost certainly led to inflated task time estimates. For
7		example, Verizon listed 38 separate tasks for the Regional CLEC Coordination
8		Center ("RCCC") workgroup, a group whose job it is to coordinate the
9		provisioning of UNE requests. <sup>66</sup>
10 11 12	Q.	HOW DOES THE WAY VERIZON DIVIDED ACTIVITIES INTO A LARGE NUMBER OF DISCRETE TASKS AFFECT THE RESULTS THAT VERIZON HAS OBTAINED?
13	A.	Verizon's survey form breaks down tasks so that the survey taker must artificially
14		consider them as one-at-a-time steps. This methodology does not capture the way
15		that technicians actually perform the tasks in question. For example, a frame
16		technician might "review" a large batch of service orders all at once and then
17		proceed to run the necessary jumpers for a number of orders. If the technician is
18		asked, as the Verizon survey does, to estimate how long it takes to do each step in
19		sequence, he or she is likely to provide a higher total estimate of the task time than

AT&T/WCOM 6-31 is misleading on this point. It indicates much larger sample sizes than would appear to be correct based on the individual responses provided.

Verizon Cost Panel Direct at 307.

if asked the average time per jumper based on an examination of the overall process.

The multiplicity of tasks that Verizon identified for each activity probably caused survey respondents to increase their overall estimate of the time needed to perform the tasks. The Verizon methodology created a classic opportunity for what cognitive psychologists and behavioral economists call the "unpacking effect." This well-documented cognitive bias says that, when asked to provide estimates for multiple components of an entire activity or phenomenon, the sum of the estimates that individuals provide for each of the parts usually exceeds the estimate that they would provide for the whole, if asked.<sup>67</sup> Verizon aggravated the unpacking effect through both its instructions to respondents and its approach to aggregating task time estimates.

- Q. HOW DID VERIZON AGGRAVATE THE UNPACKING EFFECT THROUGH ITS INSTRUCTIONS TO RESPONDENTS AND ITS APPROACH TO AGGREGATING TASK TIME ESTIMATES?
- 16 A. Verizon used "not applicable" ("N/A") (or blank) responses in a way that
  17 inappropriately increased work-time estimates. It seems likely that many of the
  18 estimators responded N/A if they had incorporated the time into another task or

See, for example, Tversky, A., & Koehler, D. J. (1994). Support theory: A nonextensional representation of subjective probability. *Psychological Review*, 101, 547-567.

1	thought that the task was unnecessary. Indeed, Verizon's survey instructions
2	virtually forced them to do so. The instructions mandated that:
3	If you do not perform a particular activity in the
4	process of carrying out the work function, enter
5	N/A, for "Not Applicable," in lieu of a time
6	estimate. An estimate entry of "0" or connect or
7	disconnect box left blank is not acceptable. You
8	may be asked to separately provide estimates of
9	occurrences, i.e., an estimate of the percentage of
10	time a particular activity is necessary in order to
11	complete the specific work function. <sup>68</sup>
12	Having explicitly restricted respondents from entering zero for any task,
13	Verizon then did not include N/A or blank responses in its calculation as zeros,
14	but instead excluded them from the calculation of average work-time estimates.
15	The effect of this approach is to make the sum of the average work-time estimates
16	(which is the basis for cost estimates that Verizon presents) much larger than the
17	average of the total work times that survey respondents reported for each activity.
18	For example, the sum of the average task times for Verizon's Engineering Work
19	Order activity is 809 minutes. <sup>69</sup> Had Verizon summed the task times that each
20	survey respondent reported for the Engineering Work Order activity and then

Verizon Exhibit Part H, Section K, page 2 of 2 ("Instructions for Providing Estimates of Average Time").

Verizon New York's Response to RLI-BA-134 in NYPSC Case 98-C-1357. Verizon VA's non-recurring cost study for this element uses a total task time of \*\*\*BEGIN VERIZON PROPRIETARY \*\*\* END VERIZON PROPRIETARY\*\*\* minutes for the Engineering Work Order activity. This decrease from the total 809 minutes seems to result from adjustments that Verizon has made to its survey data. Because we have do (continued)

computed an average total activity time, the result would have been 401 minutes<sup>70</sup>—just over half of the total activity time that Verizon computed by averaging the work time estimates for each task without accounting for N/As, blanks or zeros and then summing the averages for the individual tasks.

We find it very likely, given the vagueness of Verizon's instructions, the artificial separation of tasks, the duplicative task descriptions and the apparent frequency of blank or "not applicable" answers, that many respondents intended their "not applicable" or blank answers to mean that the task was not necessary at all. As this example shows, the way in which Verizon processed its survey data substantially inflates the overall task time results relative to the total estimates for each activity that its own survey respondents provided.

# Q. DO VERIZON'S SURVEY INSTRUCTIONS APPEAR TO HAVE MISLED RESPONDENTS IN OTHER WAYS?

Yes. Verizon applied an occurrence factor to its study's average work-times "to adjust for the frequency that a given activity is performed." However, Verizon's approach disassociates occurrence factors from the particular tasks and times.

Respondents were told that occurrence factors were to be dealt with separately.

For the average task times, they were specifically instructed that, for a given task,

not have adequate information involving the nature of those adjustments, we have used information Verizon provided in New York for this example.

Α.

The median result would have been even lower—228 minutes.

Verizon Cost Panel Direct at 316.

"your estimates [should] assume you perform it all the time."<sup>72</sup> The occurrence factors were not gathered from the same people that answered the task time surveys, or nor do they appear to have been gathered at the same time. The people providing occurrence factors did not necessarily have the same interpretation of the task in mind as the survey respondents upon which the average time was based.

Verizon compounded this error by failing to sufficiently adjust for the frequency with which tasks need to be performed. For example, only one task included in the "conditioning" studies, "send tone," was assigned an occurrence factor of less than 100%. Furthermore, Verizon VA assigned occurrence factors of 100% to tasks that are not always necessary. For example, Verizon has assigned a 100% occurrence factor to the underground load coil removal task "pump manhole if necessary," even though Verizon will not always encounter water in the manhole. And, because the task is described as "pump manhole if necessary," the survey respondents would not have been providing an average time (taking into account occasions when pumping is not necessary), but the total

Verizon Exhibit Part H, Section K, page 2 of 2.

Verizon Cost Panel Direct at 316; see also fn 16.

Verizon Wholesale Non-Recurring Cost Model.

Verizon has applied a 200% occurrence factor for this task, presumably assuming it requires two people 100% of the time. Verizon Wholesale Non-Recurring Cost Model.

- time to pump, in anticipation that Verizon would adjust that time by an appropriate occurrence factor.
- 3 Q. DOES VERIZON'S STUDY METHODOLOGY SUFFER FROM ANY OTHER DEFICIENCIES?

A. Yes. Verizon's studies include the assumption of duplicative tasks. In addition to the obvious double-counting that results from this approach, the request to provide time estimates for the same task more than once, sometimes under the same activity heading, may have been an additional source of confusion for the survey respondents. For example, Verizon does not appear to have provided any guidance to respondents as to why the survey for the Engineering Work Order activity includes both the tasks "receive completion notice from Construction" and "receive completion notice from Construction and final post the work order on the cable plat(s)." The second task seems, on its face, to completely incorporate the first task. Strangely, the maximum time estimate for the first task (16 hours) far exceeds the 5.5-hour maximum time estimate for the second, more encompassing task.

Verizon New York's Response to RLI-BA-134 in NYPSC Case 98-C-1357.

Id. In both cases, however, the maximum time estimates likely reflect the same problem that we discussed with respect to the "acquire necessary and appropriate approval" task in a previous answer. That is, the high-end responses likely include the elapsed time from the end of the construction job to the receipt of the completion notice by the personnel who post work orders on the cable plat(s), not just the time that the latter personnel spent in handling the completion notice and posting the work orders.

2 3	Q.	CHARGES ARE BASED RETURN EFFICIENT, LEAST-COST TASK TIMES?
4	A.	No. Verizon asserts that its survey responses were reviewed carefully for
5		reasonableness. <sup>78</sup> However, the examples we have already enumerated show that
6		that review cannot have been very rigorous. Verizon's survey methodology is so
7		seriously flawed conceptually and practically that the Commission should not use
8		the survey results as the basis for setting non-recurring costs. What is clear is that
9		Verizon's survey could not possibly represent efficient work times. We present
10		numerous examples of inflated, inefficient task times throughout this testimony.
11 12	Q.	DO YOU HAVE OTHER EXAMPLES OF THE INCONSISTENCIES THAT RESULT FROM VERIZON'S METHODOLOGY?
13	A.	Yes. To illustrate this inappropriate cost modeling, we have included a review of
14		the work activities Verizon claims are necessary for the "Two Wire New Initial
15		UNE Loop." The process workflow we will describe occurs when the ILEC
16		reuses the existing Loop facilities and does not intend to collect non-recurring
17		charges for Field Installation.
18		We have taken the work activities for Verizon's "Two Wire New Initial
19		UNE Loop" <sup>79</sup> and laid them out in a process workflow diagram to describe
20		Verizon's so-called forward-looking process AT&T/WCOM NRCM-5. This

Verizon Cost Panel Direct at 312-313.

Verizon NRCM, Tab 1.

process view reflects the provisioning process beginning with the CO Frame activities because these activities represent *the temporary core activities* necessary to place a cross-connection between the ILEC's cable pair and the CLEC's equipment.

Verizon starts its process with CO Frame Task #3, which is actually two tasks. We have divided this task into two individual tasks because the CO Frame technicians do not normally retrieve one order at a time; they typically retrieve their orders in a "work package" with other orders. The work package allows a normal progression of work to continue without returning to OSS for each order. So the first obvious question is "on average, how many orders are retrieved in the course of CO Frame task # 3?" If the average number of orders is greater than 1, then Verizon should divide the *total* time it takes to retrieve the orders by the average number of orders associated with this task. Verizon's NRCM and supporting documentation is devoid of any such input, implying that the assumed process inefficiently involves retrieval of one order at a time.

Mr. Walsh's experience in observing CO Frame technicians performing this task in a retail environment leads him to believe this retrieval would yield on average approximately 8-10 orders, and the time involved to retrieve the work package is generally under 10 minutes. There may be another 15 minutes or so to give the work package a cursory review. Thus, the total time for the 8-10 orders would be approximately 25 minutes, or about two and a half minutes for each order. The task time indicated in Verizon's NRCM appears to reflect the

technician work to retrieve just one order, thus undoing the efficiencies gained by the multiple order work package.

Some percentage of the orders will require travel to a remote/un-manned CO. It is not efficient to travel to a CO to perform just one task; therefore, this travel time needs to be divided by the total number of tasks that CO Frame technician will complete while at that Central Office. Verizon's NRCM fails to provide any user-adjustable input as to the number of orders or tasks the technician travels to perform and is expected to complete and appears erroneously to assume that the technician performs a single task at the remote CO.

Verizon's travel time estimates are implausibly inconsistent. For the 2 Wire Loop UNE, Verizon claims this requirement is necessary 12% of the time, implying that 12% of the facilities are in non-staffed central offices, which seems to be reasonable. However, on the "Two Wire Hotcut - Initial" element, this percentage increase to 24%. There is no (continued)

The next Verizon CO Frame task (CO Frame Task #8) in sequence has to be divided into three individual tasks because it presents a decision point as to the validity of the service order assignment received (workable or non-workable) and the action required if the assignment is defective. Verizon has presented this task (CO FRAME TASK #8) with a typical occurrence factor of 75%, but has provided too little information to determine what percentage of that time results from the re-verification (verification was also performed in task #3) or the discovery of defective assignments.

The retail process that Mr. Walsh is familiar with involves the verification and cross-wire placement at essentially the same time. The technician takes the cross-wire in hand and goes to the office equipment location first. If the equipment is available for use, as indicated on the order, he/she begins the cross-wiring activity by cutting in the wires and placing the cross-wire along the horizontal shelves to the cable pair location. If the assigned cable pair is available, then the technician terminates the remaining end of the cross-wire. Only when facilities don't agree does any further verification begin. As this discussion illustrates, task 8 (verification) will generally be unnecessary and/or duplicative of time included elsewhere in Verizon's non-recurring cost studies.

reason that explains a 100% increase in the number of facilities appearing in non-staffed Central Offices for hotcuts or a 100% increase in the amount of travel time applied for that task.

Verizon has portrayed a "two-step process," with a verification activity included in task #8 and a cross-wire placement activity in task #11 for a total of \*\*\*VERIZON PROPRIETARY \*\*\*\*\*\*\*\*\*\*\*\*, END VERIZON

PROPRIETARY\*\*\* which is well overstated. The actual time for this verification and cross-wire placement is closer to 2.5 minutes; this amount of time was used as a "standard time increment" when Mr. Walsh was involved as an engineer to calculate similar cross-wiring activities.

Verizon suggests that the Frame Technician contacts the RCCC and obtains new assignment (CO Frame task #8) if the network service order assignment is defective (*i.e.*, not workable). This step is inconsistent with Mr. Walsh's experience with provisioning retail services. Based on that experience, the technician would normally place the order into a jeopardy state, which electronically notifies the other departments of the CO Frame's inability to "work" the order. All processing stops until the order has been corrected, or until CO Frame technician is re-notified (electronically) that the condition reported is not a valid condition and to "work" the order as is. In either case, work doesn't resume again until the CO Frame technician has a new version of the order (*i.e.*, a corrected order).

There is no reason that the jeopardy process should be different for CLEC orders and no reason to request that the RCCC obtain another assignment. With today's OSS, Verizon need not notify anyone manually. Thus, there is no role for RCCC in the activities discussed to this point.

1		In the center of this process flow exhibit is the "catch-all task," CO Frame
2		task #18, which states "If a problem occurs, resolve the problem with Field
3		Installation technicians and the RCCC to insure that the CLEC can reach its end-
4		user at the time of installation." Verizon includes ***VERIZON
5		PROPRIETARY ***** END VERIZON PROPRIETARY*** minutes of time
6		for this task, even for this example of Verizon re-using existing facilities, which
7		eliminates the need to dispatch a field Installation technician,.
8 9	Q.	WHAT NON-RECURRING ACTIVITIES DOES VERIZON CLAIM TO BE NECESSARY FOR SUB-LOOP UNBUNDLING?
10 11	A.	For the "Distribution Subloop Two Wire New Initial," Verizon assumes the same
12		activities shown in the process flow that we used in the previous example to
13		represent the field installation activities for the "Two Wire New Initial," except
14		for the CO Frame technician. Verizon has simply removed the CO Frame's
15		workgroup and its tasks from the sub-loop cost study, leaving the remaining
16		workgroups.
17		Some of the identified tasks of the RCCC and the Field Installation
18		technician make no sense because the work activity takes place only at the Field
19		Distribution interface. Therefore, Task #3 "Gain Access to Prem and demarcation
20		point / NID" would be unnecessary. Travel time for Task #5 is unnecessary
21		because the relevant travel is assumed in task #2. Task 6 represents costs
22		attributable to defective plant conditions; therefore, this maintenance-related cost
23		belongs in the recurring charges. Task #7 "Work with Frame, and/or RCCC if
24		necessary, for new pair assignment" is needed to reflect work on "whole loops,"